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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/690,590	10/18/2000	MINORU KATAYAMA	107612	2593
25944 7	590 04/22/2002			
OLIFF & BERRIDGE, PLC			EXAMINER	
P.O. BOX 19928 ALEXANDRIA, VA 22320			CYGAN, MICHAEL T	
			ART UNIT	PAPER NUMBER
			2856	
			DATE MAILED: 04/22/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Caminer   Art Unit   2856   Examiner   Art Unit   2856			Application No.	Applicant(s)			
Examiner			09/690.590	KATAYAMA FT AI			
Michael Cygan   2856		Offic Action Summary					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Peri d for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time my be available under the provisions of 37 CFR 1.36(a). In no event, however, may a reply be timely fled after 5X (6) MONTHS from the mailing date of this communication of 17 CFR 1.36(a). In no event, however, may a reply be timely fled after 5X (6) MONTHS from the mailing date of this communication of the provision of Claims  4) □ Claim(s) 1.12 is/are rejected.  5) □ Claim(s)							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edurations of time may be available under the provision of 3C PER 1.33(a). In no event, however, may a reply be timely filled  If the selection of reply specified above is less than thirty (20) days, a reply within the statutory minimum of thirty (20) days will be considered timely.  If this specified for reply specified above, the maximum statutory produced by the St. (6) MONTHS from the mailing date of this communication.  Failve by reply within the set or extended period for reply will be statuted by an other sets (6) MONTHS from the mailing date of this communication, even if timely filed, may reduce any set of the set of the second set of the							
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 3 CRF 1.136(a). In no event, however, may a reply be timely filed after SIx (6) MONTHS from the mailing date of this communication.  If the periods for reply specified above is less than they (30) days, a reply within the statutory minimum of thicky (30) days and the considered firmly.  Failure to reply specified above is less than thrifty (30) days, a reply within the set or extended principle for reply with the patients.  Any reply recedued by the Office later than three mentiles after the application is become ABANDONED (30 U.S.C. § 133).  Any reply recedued by the Office later than three mentiles and the sometime files, may reduce any example grain term adjustment. Set 37 CFR 1.70(b).  Status  1)							
2a)  This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-12 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are epicted.  7) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 18 October 2000 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  3. Copies of the certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	<ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>If NO period for reply is specified above, the maximum statutory preciod will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>						
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<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>							
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Attachmant(a)	_ , _						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)  4) Interview Summary (PTO-413) Paper No(s)  5) Notice of Informal Patent Application (PTO-152) 6) Other:	2) Notice	e of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal I				

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### **DETAILED ACTION**

### Drawings

Figures 17 and 18 should be designated by a legend such as --Prior Art--because only that which is old is illustrated (See Figures 6 and 7 of JP08-029153). This should further be noted in the Brief Description of the Drawings. See MPEP § 608.02(g).

## Claim Objections

2. Claim 3 is objected to because of the following informalities: The use of term "respectively" in the third line of the claim is unclear. A suggested change is, for lines 2-3, "wherein each of the Y-axis adjustment means, the swivel adjustment means, and the inclination adjustment means include a micrometer head." Appropriate correction is required.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 8-12 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 90/12277 (Bielle). Bielle discloses a surface texture measuring machine

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having a stage movable in the Y-axis direction (see table [9] with grooves for movement in Y-direction) and capable of seesawing in a Z-direction (see Figure 7 and pages 19-20) on a fulcrum [15]. The machine has a displacement detection means [5] which is movable in the X-axis direction for measuring displacement on a workpiece [6]; see abstract and Figures 1, 7, and 10. Bielle discloses adjusting the orientation of a workpiece by measuring three points on the piece, calculating the difference in the Z-position of the points from a desired position, displaying the correction amount on a screen, and manually operating an adjustment means (e.g., points of action 130,131) to correct the orientation. As shown in Figure 7, the device has a fulcrum [15], calculation, output, and adjustment means (pages 19-20). See also abstract.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuda (JP 08-029153) in view of WO 90/12277 (Bielle). Fukuda discloses a surface contour measurement device having a rotatable stage which is movable in the X- and Y-axis directions and has an inclination correction

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means (titubation device [42] rocking the object on titubation shaft (fulcrum)); see Figure 1 and English language translation pages 2-5, especially paragraphs 9 and 25. Fukuda discloses a measurement means [10A] being controlled by a measurement controller [50]; see Figure 2. Fukuda discloses automatic measurement of a surface from a start point to an end point (which inherently have max/min Z-axis endpoints in the inclination measurement) to calculate an initial orientation, and input of X-axis, Y-axis, and swivel angle values to an error correction means, and further discloses adjusting the rotation, inclination, and Y-axis movement of the piece to correct the piece to a desired alignment based upon a result from an error calculation means; see especially page 4 of English language translation.

With respect to claims 4-7, Fukuda teaches the claimed invention except for the use of a fulcrum-based, manually operated leveling device having a micrometer knob and a display of the orientation correction amount. Bielle teaches the use of a fulcrum-based, manually operated leveling device having a micrometer knob and a display of the inclination orientation correction amount in a surface roughness measurement device. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a fulcrum-based, manually operated leveling device having a micrometer knob as taught by Bielle in the invention of Fukuda to orient the piece relative to the displacement detecting means, since this would advantageously provides a

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structure shown to be capable of positioning of the preferred measurement surface of the piece relative to the detecting means.

With respect to claims 1-3, neither Bielle nor Fukuda disclose manual displacement in the Y-axis direction in accordance with a displayed swivel correction angle. Fukuda discloses only the automatic operation of Y-axis and swivel correction due to error values (page 4, paragraph 25 of English abstract), and states that this method is superior to the prior known "hand regulation by the operating personnel". Fukada thus "teaches away" from manual operation, but discloses that such operation is known in the prior art. As stated in *In re Gurley*, "the nature of the teaching is highly relevant and must be weighed in substance. A known or obvious composition does not become patentable simply because it has been described as somewhat inferior to some other product for the same use", In re Gurley, 27 F.3d 551, 554, 31 USPQ2d 1130, 1132 (Fed Cir. 1994). See also MPEP 2145(X)(D)(1). In the present case, Fukuda discloses manual operation as known, but somewhat inferior for the same use as automatic operation. The use of manual operation of inclination angle in Bielle further supports the usefulness and obviousness of manual operation of system parameters. Therefore, it would have been obvious to one having ordinary skill in the art to use manual operation of Y-axis correction, which is disclosed to be known in the prior art by Fukuda, in the invention of Fukuda in view of Bielle to correct the orientation of a workpiece, since this would advantageously allow correction of positioning of the preferred measurement surface of the piece

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relative to the detecting means in the Y-axis direction. The use in the invention of Fukuda of micrometer knobs as taught by Bielle for manual operation would have been obvious to one having ordinary skill in the art at the time the invention was made, since micrometer knobs are well known for use in manual position adjustment and perform that function in Bielle for the purpose desired by Fukuda.

#### Conclusion

- 5. Since claims 2, 3, and 5 were not rejected in the first Office Action, and thus have not been twice rejected, this action is non-final due to the rejection of those claims based upon the newly presented translation of JP08-029153.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The English language translation of JP08-122055 discloses a method of adjusting object inclination using a fulcrum and an action point in which an operator manually adjusts a knob in accordance with measured angle and vector data which is displayed on a screen.

# Response to Arguments

7. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection. With respect to the figure objections, Figures 17 and 18 are disclosed in the prior art Fukuda JP 08-029153.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Cygan whose telephone number is 703-305-0846. The examiner can normally be reached on 8:30-6 M-Th, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on 703-305-4705. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.

MIC

mtc

April 15, 2002

HEZBON WILLIAMS

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800